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|--|--------|--|
|  |        |  |

Application/Control No.

10/743,698

Examiner

Jeffrey T. Barton

Applicant(s)/Patent under Reexamination

GASCOYNE ET AL.
Art Unit

1753

| √ | Rejected |
|---|----------|
| = | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| o | Objected |

|          |  | L           | -  | T | - | _ | _ | -        | -        | -   | _   | J  |              |          | L      | _ |          |
|----------|--|-------------|--|---|---|---|---|----------|----------|-----|-----|----|--------------|----------|--------|---|----------|
|          | Claim  | Т           | _  | - |   | - | _ | •        |          | Di  | ati | _  | -            | _        |        | _ |          |
| Final    | -  |             | <u> </u>                                     |   |   |   |   |          |          | Ī   | 21. |    |              |          |        |   |          |
|          | 1  | 寸           | 1  | t | _ | t | - | t        | _        | r   |     | -  | +            | _        | t      | + |          |
|          | 1<br>2<br>3<br>4<br>5                              | T           | 1  | T |   | T | _ | T        |          | T   |     | Ι- | t            | _        | H      | 7 |          |
|          | 3  | I           | 1  | Γ |   | T |   | T        | _        | T   | _   | Г  | T            | _        | H      | 7 | _        |
|          | 4  |             | V  | L |   |   |   |          |          |     |     |    | T            |          | Γ      | 7 |          |
| _        | 5  | 1           | 1  | L |   | L |   | L        |          |     |     |    | Ι            |          |        |   |          |
| <u> </u> | 6  | - -         | √  | L | _ | L | _ | L        |          | L   | ┙   |    | 1            | _        | L      |   |          |
| <u> </u> | 7<br>8<br>9  | +           | ٧,   | L |   | L | _ | L        | _        | L   | 4   |    | 1            | _        | L      | 4 |          |
| _        | 1 8  | +           | 7  | L | _ | L | _ | L        | _        | _   | 4   |    | $\downarrow$ | _        | L      | 4 |          |
|          | 10   | +           | <u>v</u>                                     | L | _ | L |   | L        | 4        | _   | 4   | _  | 1            | _        | L      | 4 | _        |
| -        | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 |             | <u>,                                    </u> | H | 4 | - | 4 | _        | -        | _   | 4   |    | ╀            | _        | L      | + | _        |
|          | 112  | +           | Ť  | - | - | - | - | _        | $\dashv$ | -   | +   |    | ╀            | -        | H      | + | -4       |
| <u> </u> | 13   | ;   .       | ij   | - |   | - | ۲ | _        | $\dashv$ | -   | +   | _  | ╁            | -        | _      | + | ┥        |
|          | 14   | .   .       | j  |   | 7 | - | 4 |          | ┪        | -   | +   |    | ╁            | ┥        | _      | + | -        |
|          | 15   | 1           | 7  | _ | 7 |   | 7 | _        | 7        |     | †   | _  | $^{+}$       | $\dashv$ | _      | † | $\dashv$ |
|          | 16   | 7           | Ī  |   | 1 | _ | 7 | _        | 7        | _   | 1   |    | T            | 7        |        | t | 7        |
| -        | 17   | 1           | T  |   |   |   | 7 |          | 7        | _   | 7   |    | 1            | 7        |        | T | $\neg$   |
|          | 18   |             | I  |   |   |   |   |          |          |     | T   |    |              | 7        | _      | T |          |
|          | 19   | 1           | 4  |   |   |   |   |          |          |     | Ι   |    |              |          |        | Ī |          |
|          | 20<br>21<br>22<br>23<br>24<br>25                   | 1           | 4  | _ | 1 |   | 1 | _        | 1        |     | 1   |    | L            |          |        | I |          |
|          | 21   | 1           | 4  | _ | 4 |   | 4 |          | 1        | _   | 1   | _  | L            | 1        |        | 1 | $ \bot $ |
|          | 22   | +           | 4  | _ | 4 | _ | 4 | _        | 4        |     | 1   | _  | L            | 4        |        | Ļ | _        |
|          | 23   | +;          | +  | - | + | _ | + | _        | 4        |     | +   | _  | L            | 4        |        | Ļ | 4        |
|          | 25   | 1           | 7  |   | + | _ | + |          | +        |     | ╀   | _  | H            | 4        |        | ╀ | 4        |
|          | 26   | +;          | +  | _ | t | _ | + |          | ╁        | -   | +   | _  | _            | +        | _      | ╀ | $\dashv$ |
|          | 26<br>27   | 1           | †  |   | t | - | t | _        | t        |     | t   | _  | H            | +        | _      | ╁ | $\dashv$ |
|          | 28<br>29   | T           | Ť  | _ | † | _ | t |          | †        |     | t   | _  | _            | +        | _      | f | $\dashv$ |
|          | 29   | V           | T  |   | Ť |   | T | _        | Ť        |     | t   | _  |              | †        | _      | t | ヿ゙       |
|          | 30   | √           | Ī  | _ | T |   | T |          | T        |     | T   |    |              | Ť        |        | T | ٦        |
|          | 31<br>32   | √<br>√<br>√ |  |   | I |   | I |          | Ι        |     | Ţ   |    |              | Ť        |        | Γ | 7        |
|          | 32   |             | 1  |   | 1 |   | 1 | _        | L        |     | L   |    |              | I        |        |   | ]        |
|          | 33   | 1           | ļ  |   | Ļ |   | Ļ |          | L        | _   | L   | _  |              | 1        |        |   |          |
|          | 34<br>35   | \<br>\<br>\ | +  |   | ╀ | _ | 1 |          | Ļ        |     | L   | 4  | _            | 1        | _      | L | 4        |
|          | 35   | -           | ╀  | _ | ł | _ | ╀ |          | ╀        |     | L   | 4  | _            | +        | _      | L | 4        |
|          | 36<br>37   | v<br>√      | ╁  | - | ╁ | _ | ╀ |          | ┞        | _   | ⊦   | 4  | _            | ł        | _      | _ | 4        |
|          | 38   | 1           | +  | _ | ╁ | _ | ╁ |          | ╁        | _   | ┝   | +  | _            | ╀        | _      | H | -        |
|          | 39   | 1           | t  |   | t |   | t | _        | H        |     | H   | +  | _            | ╁        | -      | - | ┨        |
|          | 40   | 1           | t  |   | t | _ | f | _        | t        |     | -   | 1  |              | †        | _      | _ | ┪        |
|          | 41   | 1           | T  |   | I | _ | T | _        | T        |     | 1   | 1  | _            | t        | ┪      | - | 1        |
|          | 42   | 1           | Γ  | Ξ | Γ |   |   |          | Γ        |     | Γ   | 7  |              | T        | ٦      | _ | 1        |
|          | 43   | ٧           |  | _ |   |   |   |          |          |     |     | J  | _            | I        |        | _ | 7        |
|          | 44   | 1           | L  | _ | L |   | L |          |          |     |     | I  | _            |          | $\Box$ |   | ]        |
|          | 45   | 1           | L  | _ | L | _ | L | _        | L        | _   | _   | 1  | _            | L        | Ц      | _ | ]        |
|          | 46   | 1           | L  | 4 | L | _ | L | _        | L        | _   | _   | 4  |              | L        | 4      | _ | 1        |
|          | 47<br>48   | 1           | H  | 4 | L | - | L | 4        |          | 4   | _   | +  | _            | ┞        | 4      | _ | -        |
|          | 49   | 1           | $\vdash$                                     | 4 | L | - | _ | $\dashv$ | _        | 4   | _   | +  | _            | ┞        | 4      | _ | 4        |
|          | 50   | 1           | -  | - | - | - | _ | -        | _        | 4   | _   | +  | _            | $\vdash$ | 4      |   | -        |
|          |  | _'_         | Ц.   | _ |   |   |   | _ I      |          | - [ |     | -  |              | 1        | - 1    |   | 1        |

|          | С        | laim     | Т                                     | _        |         |           | _        | D            | ate      |          |          |          | _ |
|----------|----------|----------|---------------------------------------|----------|---------|-----------|----------|--------------|----------|----------|----------|----------|---|
|          |          |          | 1                                     | Г        | Ţ       | _         | Τ        | Ť            | Ť        | - 1      | $\neg$   |          | Γ |
|          | <u></u>  | Original | 10/19/04                              | İ        |         |           | ı        |              |          |          |          |          |   |
|          | Final    | E.       | 15                                    | l        | 1       |           | l        |              |          | - 1      |          |          | l |
|          |          |          | 12                                    | l        | 1       |           |          |              |          | - 1      |          | - 1      | l |
|          | $\vdash$ | 51       | V                                     | ┝        | ╁       | -         | $\vdash$ | +            | +        | -        | {        |          | - |
|          | <b>-</b> | 52       | 1 3/                                  | ┢        | ╁       | _         | ┝        | ╫            | +        | 4        | -        |          | L |
|          | -        | 53       | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ⊢        | +       | -         | ┝        | ╁            | +        |          |          | 4        | - |
|          | _        | 54       | 1 ×                                   | ├        | +-      | _         | ┞        | +            | +        | 4        | -        |          | - |
|          |          | 54       | 17                                    | H        | +       |           | _        | +            |          | 4        | _        | 4        | _ |
|          |          | 55       | 1 7                                   | <u> </u> | ╀       | -         | _        | ╁-           | 4        | _        | _        | _        | _ |
|          |          | 56       | +ν                                    | -        | 4-      | _         | _        | ┸            | 4        | _        | _        | _        | _ |
|          |          | 57       | 1_                                    | <u> </u> | 1       | _         | _        | $\perp$      | 1        | 4        |          | _[       |   |
|          |          | 58       | <u> </u>                              | L        | 1       | _         |          | $\perp$      | $\perp$  | ┙        | $\perp$  |          |   |
|          |          | 59       | L.                                    |          | L       |           |          | ┸            |          |          |          | _ [      | _ |
|          |          | 60       |                                       |          | $\perp$ |           |          | $\perp$      | $\perp$  |          |          | П        |   |
| ļ        |          | 61       | L                                     |          |         |           |          |              |          |          | Т        | Т        | _ |
| ĺ        |          | 62       |                                       |          | Γ       | ٦         |          | П            | T        | Т        | T        | 丁        | _ |
| Į        |          | 63       |                                       |          | Τ       | ٦         |          | Т            | 7        |          | T        | ヿ        | _ |
| ſ        |          | 64       |                                       |          | Τ       | 7         |          | 1            | 1        | 7        | $\top$   | $\top$   | _ |
| 1        |          | 64<br>65 | $\Box$                                |          | Τ       | 7         |          | 1            | 1        | ╅        | 十        | 十        | - |
| ſ        |          | 66       | П                                     |          | T       | 7         |          | T            | ╁        | +        | +        | +        | - |
| Ī        |          | 67       |                                       | _        | 1       | 7         |          | $\vdash$     | +        |          | +        | +        | - |
| 1        |          | 68       | Н                                     |          | ┢       | +         | -        | ╁            | +        | ╅        | +        | +        | - |
| ŀ        |          | 69       | ╌┤                                    | _        | ╁╴      | +         |          | ╁            | ╁        | ┰        | ┿        | +        | _ |
| ŀ        |          | 70       | $\vdash$                              | _        | ╁       | +         |          | ⊬            | ╁        |          |          | +        | _ |
| ŀ        |          | 71       | $\vdash$                              |          | ┝       | +         |          | ╀            | +        | +        | -        | -        | _ |
| ŀ        |          | 72       |                                       |          | ⊢       | +         |          | <del> </del> | +        | +        | +        | +        | _ |
| ŀ        |          | 72<br>73 | $\vdash$                              | _        | H       | +         |          | -            | +-       | 4        | 4        | 4        |   |
| ŀ        |          | 73       |                                       |          | L       | 4         |          | ├-           | ╀-       | +        | 4        | 4        |   |
| -        |          | 74<br>75 | $\dashv$                              |          | L       | 4         |          | <u> </u>     | 4_       | ┸        |          | $\perp$  | _ |
| -        |          | /5       | $\dashv$                              | _        | Ļ.      | 4         |          | _            | ┺        | 4        | $\perp$  |          |   |
| ┝        |          | 76       | $\dashv$                              |          | _       | 1         |          | L_           | 丄        | 4        | 4        |          |   |
| ŀ        |          | 77       | $\dashv$                              | _        |         | 1         |          | L.           | $\perp$  | ┸        | 1        |          |   |
| Ļ        |          | 78       | _                                     | _        |         | 1.        |          |              | 1_       |          |          |          | _ |
| L        |          | 79       |                                       | _        |         | ⊥         |          |              | $\perp$  |          |          |          |   |
| L        |          | 80       |                                       |          |         |           |          |              | L        |          |          |          |   |
| L        |          | 81       | -L                                    |          |         |           |          |              | L        |          | T        | Т        |   |
| L        |          | 82       |                                       |          |         | L         |          |              | [        | Τ        | Т        | T        | _ |
| L        |          | 83       |                                       |          |         | Т         | Ţ        |              |          | T        | 7        | Τ        | _ |
| L        |          | 84       |                                       |          |         | Г         |          |              | Г        | T        | T        | 1        | _ |
| L        |          | 85       | Γ                                     |          |         | Τ         | ٦        |              | T        | Т        | $\top$   | 十        | _ |
|          |          | 86       | $\neg$                                | T        |         | T         |          |              |          | Т        | $\top$   | $\top$   | _ |
|          |          | 87       |                                       |          |         | T         | ┪        |              | 1        | T        | ✝        | $\top$   | - |
| Г        | $\Box$   | 88       |                                       |          | _       | T         | 7        |              | Г        | 1        | †-       | 十        | - |
| Γ        |          | 89       |                                       | 7        |         | T         | 1        |              | _        | 1        | +        | +        | - |
| Г        |          | 90       | $\neg$                                | 7        | _       | T         | 7        |              | $\vdash$ | +        | †-       | +-       | - |
| Г        | _        | 91       |                                       | 7        |         | t         | +        | _            | _        | t        | +-       | ╁╴       | - |
| r        |          | 92       |                                       | 7        | _       | H         | 7        | _            | -        | $\vdash$ | +        | +        | - |
| $\vdash$ | $\neg +$ | 93       | _                                     | +        |         | -         | +        | -            | $\vdash$ | +        | +        | +        | _ |
| $\vdash$ | $\dashv$ | 94       | +                                     | +        | _       | ┝         | +        | $\dashv$     | -        | ⊢        | +        | +-       | _ |
| -        | -        | 95       | +                                     | +        | _       | -         | +        | $\dashv$     | _        | $\vdash$ | ╁        | +        | _ |
| $\vdash$ | $\dashv$ | 96       | +                                     | +        | _       | $\vdash$  | +        | $\dashv$     | _        | -        | +        | ╀        | _ |
| $\vdash$ | -+       | 97       |                                       | +        | _       | H         | +        |              | _        | ├-       | +        | .        | - |
| $\vdash$ | -+       |          | +                                     | +        |         | L         | +        | -            |          | _        |          | ┼        | _ |
| $\vdash$ | -+       | 98       | +                                     | +        | _       | -         | +        | 4            | _        | _        | 1        | $\vdash$ | _ |
| -        |          | 99       | - -                                   | +        |         | _         | 4        | _            | _        | <u> </u> | ــــ     | $\perp$  | _ |
| L        |          | 100      |                                       | $\perp$  |         | <u>L.</u> | $\perp$  |              |          | L_       | <u>_</u> |          |   |

| С        | laim       | T        | Date |   |   |          |   |           |          |          |           |        |           |           |
|----------|------------|----------|------|---|---|----------|---|-----------|----------|----------|-----------|--------|-----------|-----------|
| Final    | Original   |          |      |   |   |          |   | Ī         |          | Ť        |           |        |           |           |
| "        | ŏ          | 1        |      |   |   |          |   |           |          |          | l         |        |           |           |
|          | 101        | I        | 1    | _ | ╁ |          |   | †         |          | H        | $\dagger$ |        | _         | +         |
|          | 102        | <u> </u> | ┙    |   |   |          |   | $\perp$   |          |          | Т         |        |           | Τ         |
| <u> </u> | 103        | 1        | 4    |   | L |          | _ | 1         |          |          |           |        |           |           |
|          | 104        | 4        | 4    |   | Ļ | _        |   | 1         | _        | L        | L         | 4      |           | _         |
| <u> </u> | 106        | +        | -{   |   | ╀ | 4        |   | +         |          | _        | ╀         | 4      |           | ↓_        |
|          | 107        | +        | +    | _ | ┝ | +        |   | +         |          | ┝        | +-        | 4      |           | ⊢         |
|          | 108        | +        | ╁    | _ | t | +        | - | ╁         | _        | H        | ╀         | +      |           | ╁         |
| -        | 109        |          | 1    | _ | ✝ | +        | _ | $^{+}$    |          | _        | ╁         | +      |           | †         |
|          | 110        | I        | 1    |   | Γ | Ť        |   | 1         | _        |          | 1         | 1      | _         | $\vdash$  |
|          | 111        |          | I    | _ |   | 1        |   |           |          |          |           | 7      |           | T         |
|          | 112<br>113 | L        | 1    |   | L | Ţ        |   |           |          |          | L         | I      |           |           |
|          | 113        | +        | 1    | _ | L | 4        |   | Ľ         |          |          | L         | 1      |           |           |
|          | 114<br>115 | +        | 4    | _ | L | 4        |   | ╀         | _        |          | ↓_        | 4      |           | _         |
|          | 116        | ╁        | +    | - | L | +        | _ | ╀         | $\dashv$ |          | ╀         | +      |           | <u> </u>  |
|          | 117        | t        | +    | _ | - | +        |   | ╀         | 4        |          | ╀         | +      | _         | -         |
|          | 118        | ╁        | †    | _ | - | t        |   | ╁         | 1        |          | ╁╴        | $^{+}$ | -         | Н         |
|          | 119        | 1        | Ť    | T |   | †        | _ | $\dagger$ | 7        | _        | $\vdash$  | †      |           |           |
|          | 120<br>121 |          | Ī    |   |   | 1        |   | †         | Ť        |          | T         | †      | _         |           |
|          | 121        | $\Box$   | I    |   |   | I        |   | L         | 1        |          | •         | İ      |           |           |
| _        | 122        | L        | 1    | _ | _ | ļ        |   | L         | 1        | _        |           | I      |           |           |
|          | 123<br>124 | ├-       | Ļ    | 4 |   | 1        |   | L         | 4        |          | _         | 1      | _         |           |
| $\dashv$ | 124        | $\vdash$ | ╀    | 4 | _ | ╀        |   | ┞         | 4        | _        | _         | ļ      | 4         | _         |
|          | 125<br>126 | ╁        | ╁    | + |   | ╁        | _ | Ͱ         | ╂        | -        | _         | +      | -         | {         |
|          | 127        | t        | t    | + | - | †        |   | t-        | †        | -        | -         | +      | 7         | ၂         |
|          | 128        | Ε.       | T    | 1 |   | t        |   | Г         | †        |          | _         | ╁      | 7         | $\dashv$  |
|          | 128<br>129 |          | Γ    | Ī |   | T        |   |           | 7        |          | _         | T      | 7         | ┪         |
|          | 130        |          |      |   | _ | L        |   |           | I        |          |           | I      |           |           |
|          | 131        |          | L    | 4 |   | L        | _ | Ĺ.,       | 4        | $\Box$   |           |        | _         |           |
|          | 132        | -        | F    | + |   | L        | 4 | _         | 4        | _        | _         | L      | 4         | 4         |
| $\dashv$ | 133<br>134 | <u> </u> | H    | + | _ | H        | - | _         | +        | $\dashv$ | _         | ┞      | 4         | -4        |
|          | 135        | -        | ╢    | + | - | ╁        | 1 | _         | ╁        | +        |           | ╁      | +         | $\dashv$  |
|          | 136        | _        | H    | † | _ | $\vdash$ | 1 |           | t        | 1        |           | H      | +         | $\dashv$  |
|          | 137        |          |      | 1 | _ |          | 7 |           | T        | ┪        |           | 1      | +         | 7         |
|          | 138        |          |      | I |   |          |   |           | I        |          |           |        | 1         | 7         |
|          | 139        |          | L    | 1 |   | L        | 4 |           | L        | Ţ        |           |        |           |           |
|          | 140        |          | _    | 4 | _ | L        | 4 |           | Ļ        | 4        | _         | L      | 4         | _         |
|          | 141        |          | _    | + | _ | L        | 4 | _         | +        | 4        |           | _      | +         | $\dashv$  |
|          | 143        |          | _    | + | - | -        | + | _         | ╀        | +        | _         | -      | +         | -∤∙       |
|          | 144        | _        |      | + | _ | -        | + |           | +        | +        |           | _      | +         | $\dashv$  |
| 1.       | 145        |          | _    | t |   |          | † |           | t        | +        |           |        | +         | $\dashv$  |
|          | 146        |          | _    | T |   |          | 1 |           | T        | 7        |           |        | 十         | $\dashv$  |
|          | 147        |          | _    | I |   | _        | 1 |           |          | 1        |           |        | $\dagger$ | $\exists$ |
|          | 148        | $\Box$   | _    | Į |   |          | Ţ |           |          | T        |           |        | I         |           |
| 1        | 49         | 4        |      | Ļ | 4 |          | 1 |           | L        | 1        |           |        | I         |           |
|          | 50         |          |      | L | ╝ |          | 1 |           | L        | $\perp$  | $\Box$    |        | Ī         |           |